H.R. 5161, AS AMENDED BY THE SUBCOMMITTEE ON TECHNOLOGY AND INNOVATION ON FEBRUARY 7, 2008

SECTION 1. SHORT TITLE.

- 2 This Act may be cited as the "Green Transportation
- 3 Infrastructure Research and Technology Transfer Act".

4 SEC. 2. FINDINGS.

- 5 Congress finds the following:
- (1) Transportation infrastructure contributes to the pollution of surface and ground water because it is comprised of impervious surfaces that concentrate contaminants which are introduced into the water
- supply during storms.
- 12 (2) Scientists and engineers have developed nu-12 merous technologies that can be incorporated into 13 transportation infrastructure which control 14 stormwater and mitigate nonpoint source water pol-15 lution.
- 16 (3) There has not been widespread implementa-17 tion of green transportation infrastructure by gov-18 ernments or private industry because of technical, 19 regulatory, and social barriers, such as lack of train-20 ing and awareness for builders.

1	(4) The Federal Highway Administration, in
2	partnership with the Environmental Protection
3	Agency, has the technical expertise and capacity to
4	promote the use of green transportation infrastruc-
5	ture technologies by State and local governments
6	and private industry through education and outreach
7	and technical assistance programs.
8	SEC. 3. REGIONAL GREEN TRANSPORTATION RESEARCH
9	CENTERS.
10	(a) Establishment.—Subchapter I of chapter 55 of
11	title 49, United States Code, is amended by inserting after
12	section 5505 following new section:
13	"SEC. 5505A. REGIONAL GREEN TRANSPORTATION RE-
1314	"SEC. 5505A. REGIONAL GREEN TRANSPORTATION RE- SEARCH CENTERS.
14	SEARCH CENTERS.
14 15	SEARCH CENTERS. "(a) Green Transportation Infrastructure
141516	**(a) Green Transportation Infrastructure Research and Technology Transfer.—The Sec-
14151617	**SEARCH CENTERS. "(a) GREEN TRANSPORTATION INFRASTRUCTURE RESEARCH AND TECHNOLOGY TRANSFER.—The Secretary of Transportation shall make grants to university
14 15 16 17 18	SEARCH CENTERS. "(a) GREEN TRANSPORTATION INFRASTRUCTURE RESEARCH AND TECHNOLOGY TRANSFER.—The Sec- retary of Transportation shall make grants to university transportation centers established pursuant to section
141516171819	SEARCH CENTERS. "(a) GREEN TRANSPORTATION INFRASTRUCTURE RESEARCH AND TECHNOLOGY TRANSFER.—The Sec- retary of Transportation shall make grants to university transportation centers established pursuant to section 5505 or 5506 to carry out research and development and
14 15 16 17 18 19 20	"(a) Green Transportation Infrastructure Research and Technology Transfer.—The Secretary of Transportation shall make grants to university transportation centers established pursuant to section 5505 or 5506 to carry out research and development and technology transfer activities in the field of green trans-
14 15 16 17 18 19 20 21	"(a) Green Transportation Infrastructure Research and Technology Transfer.—The Secretary of Transportation shall make grants to university transportation centers established pursuant to section 5505 or 5506 to carry out research and development and technology transfer activities in the field of green transportation infrastructure.
14 15 16 17 18 19 20 21 22	"(a) Green Transportation Infrastructure Research and Technology Transfer.—The Secretary of Transportation shall make grants to university transportation centers established pursuant to section 5505 or 5506 to carry out research and development and technology transfer activities in the field of green transportation infrastructure. "(b) Objectives.—Grant funds provided under this

1	throughout the lifecycle of transportation infrastruc-
2	ture;
3	"(2) develop holistic approaches to integrating
4	green infrastructure into existing wastewater man-
5	agement systems;
6	"(3) promote adoption of innovative green
7	transportation infrastructure systems by State and
8	local governments and the private sector; and
9	"(4) manage technology transfer programs to
10	disseminate information on best management prac-
11	tices in the area of green transportation infrastruc-
12	ture to State and local governments and the private
13	sector.
14	"(c) Selection of Grant Recipients.—
15	"(1) APPLICATIONS.—In order to be eligible to
16	receive a grant under this section, a university
17	transportation center shall submit to the Secretary
18	an application that is in such form and contains
19	such information as the Secretary may require.
20	"(2) Merit review; priority.—Grants shall
21	be awarded under this section on a merit-reviewed
22	competitive basis.
23	"(3) Regional centers.—To the greatest ex-
24	tent practicable, the Secretary shall ensure that
25	there is at least one grant recipient from each of the

1	10 United States Government regions that comprise
2	the Standard Federal Regional Boundary System.
3	"(4) Selection Criteria.—Except as other-
4	wise provided by this section, the Secretary shall se-
5	lect each recipient of a grant under this section
6	through a merit-reviewed competitive process on the
7	basis of the following:
8	"(A) Demonstrated expertise in transpor-
9	tation research and environmental impacts of
10	transportation infrastructure.
11	"(B) Demonstrated research capacity and
12	technology transfer resources.
13	"(C) Existing or proposed partnerships
14	with State and local governments and private
15	industry involved in transportation-related con-
16	struction, environmental impact mitigation, or
17	other areas related to green transportation in-
18	frastructure research.
19	"(D) Capability to provide leadership in
20	developing national best management practices,
21	regional best management practices, or both in
22	the field of green transportation infrastructure.
23	"(E) Expertise in specific regional climate
24	characteristics which impact the effectiveness of

1	green transportation infrastructure technologies
2	and practices.
3	"(F) Demonstrated ability to disseminate
4	results of research and education programs
5	through a statewide or regionwide continuing
6	education program.
7	"(G) The strategic plan the recipient pro-
8	poses to carry out under the grant.
9	"(d) Activities.—The types of activities the Sec-
10	retary may support under this section include the fol-
11	lowing:
12	"(1) Research and development of innovative
13	technologies, construction techniques, or best man-
14	agement processes that mitigate the environmental
15	impact of transportation infrastructure, including—
16	"(A) assessments of the lifecycle environ-
17	mental impact of local existing or planned
18	transportation infrastructure;
19	"(B) integration of green transportation
20	infrastructure elements into existing transpor-
21	tation or waste management systems; and
22	"(C) research, development, testing, and
23	evaluation of new technologies or best manage-
24	ment practices.

1	"(2) Establishment and operation of a regional
2	technology transfer program to disseminate informa-
3	tion on new technologies and best management prac-
4	tices to State and local governments, institutions of
5	higher learning, and private industry in the region.
6	"(3) Study of the impact of State, local, and
7	Federal regulations on the implementation of green
8	transportation infrastructure technologies and prac-
9	tices. These studies shall include collaboration with
10	appropriate Federal agencies to evaluate the effect
11	of and possible changes to Federal and State regula-
12	tions that impede implementation of green transpor-
13	tation infrastructure.
14	"(4) Public education campaigns to raise
15	awareness of the benefits of green transportation in-
16	frastructure technologies, including activities to raise
17	awareness and foster collaboration among regional
18	governments, private industry, and other public and
19	private stakeholders.
20	"(e) Annual Meeting.—The Secretary shall con-
21	vene an annual meeting of the Centers receiving grants
22	pursuant to this section in order to foster collaboration
23	and communication among Center participants and dis-
24	seminate best management practices.

1	"(f) Authorization of Appropriations.—There
2	are authorized to be appropriated to the Secretary to carry
3	out this section \$6,000,000 for each of the fiscal years
4	2009 and 2010. Amounts appropriated pursuant to this
5	section shall be in addition to amounts otherwise appro-
6	priated for university transportation centers established
7	pursuant to section 5505 or 5506.
8	"(g) Definition.—In this section, the term 'green
9	transportation infrastructure' includes infrastructure
10	that—
11	"(1) preserves and restores natural processes,
12	landforms (such as floodplains), natural vegetated
13	stream side buffers, wetlands, or other topographical
14	features that can slow, filter, and naturally store
15	stormwater runoff and floodwaters for future water
16	supply and recharge of natural aquifers;
17	"(2) utilizes natural design techniques that in-
18	filtrate, filter, store, evaporate, and detain water
19	close to its source;
20	"(3) minimizes the use of impervious surfaces
21	in order to slow or infiltrate precipitation;
22	"(4) minimizes lifecycle energy consumption, in-
23	cluding during construction, maintenance, use by ve-
24	hicles, and destruction and recycling; and
25	"(5) minimizes lifecycle air pollution.".

1	(b) Conforming Amendment.—The table of sec-
2	tions for such subchapter is amended by inserting after
3	the item relating to section 5505 the following new item:
	"5505A. Regional Green Transportation Research Centers.".
4	SEC. 4. GREEN TRANSPORTATION INFRASTRUCTURE
5	AMENDMENTS.
6	Section 504 of title 23, United States Code, is
7	amended—
8	(1) in subsection (a)(3)—
9	(A) in subparagraph (A)(ii)—
10	(i) by striking "and" at the end of
11	subclause (V);
12	(ii) by striking the period at the end
13	of subclause (VI); and
14	(iii) by adding at the end the fol-
15	lowing new subclause:
16	"(VII) the use of green transpor-
17	tation infrastructure (as defined in
18	section 5505A(g) of title 49) for envi-
19	ronmental protection and mitigating
20	environmental impacts of transpor-
21	tation construction."; and
22	(B) by adding at the end the following new
23	subparagraph:
24	"(D) Interagency coordination.—The
25	Institute shall coordinate the development of

1	curriculum and courses with other Federal
2	agencies with expertise in the course subject
3	areas."; and
4	(2) in subsection (b)(2)(A)(i) by striking "and
5	traffic safety countermeasures" and inserting "traf-
6	fic safety countermeasures, and options with respect
7	to green transportation infrastructure (as defined in
8	section 5505A(g) of title 49)".